J. SCHWARTZ.

WASHING MACHINE.

APPLICATION FILED NOV. 3, 1908.

948,255. Patented Feb. 1, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

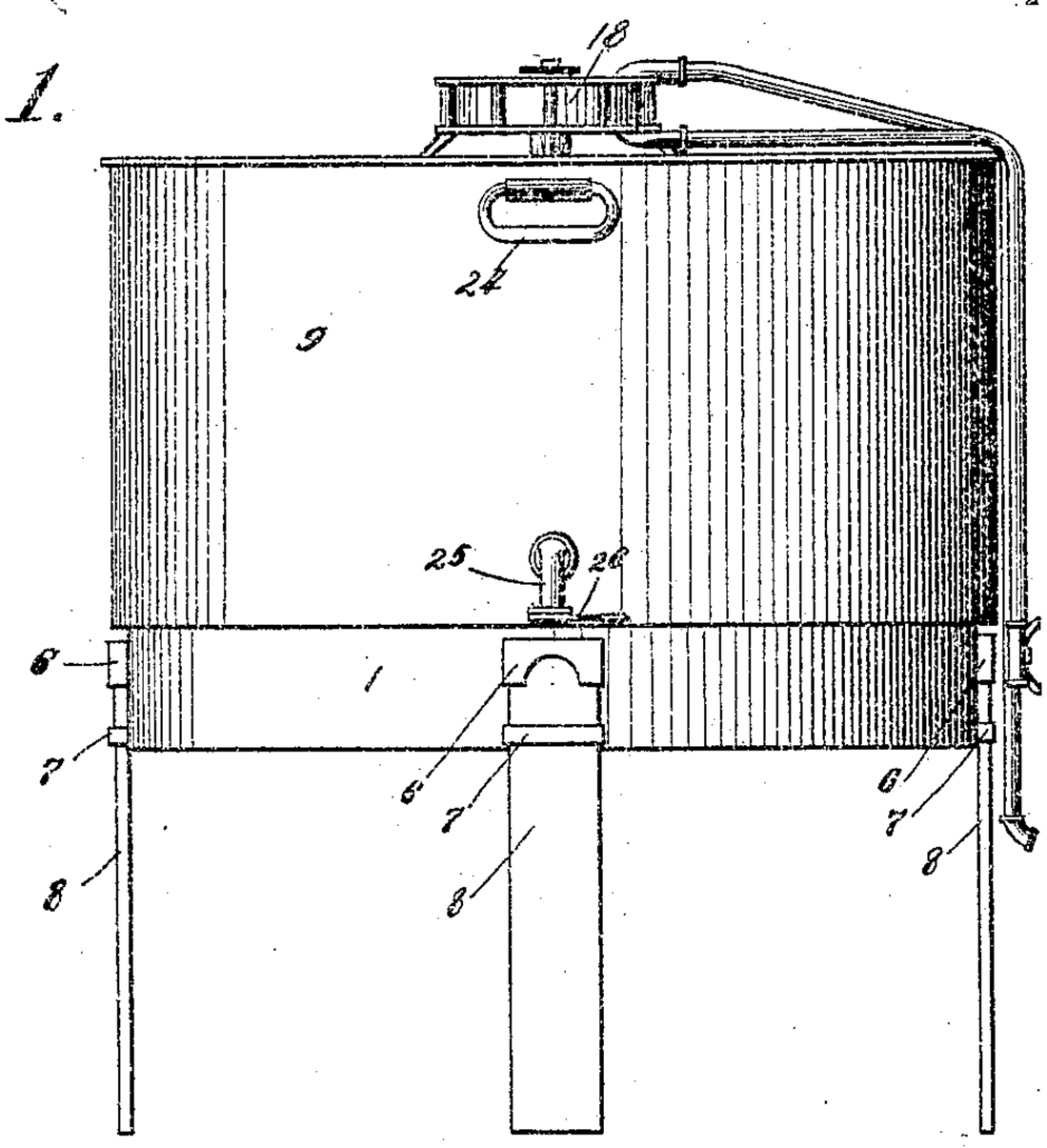
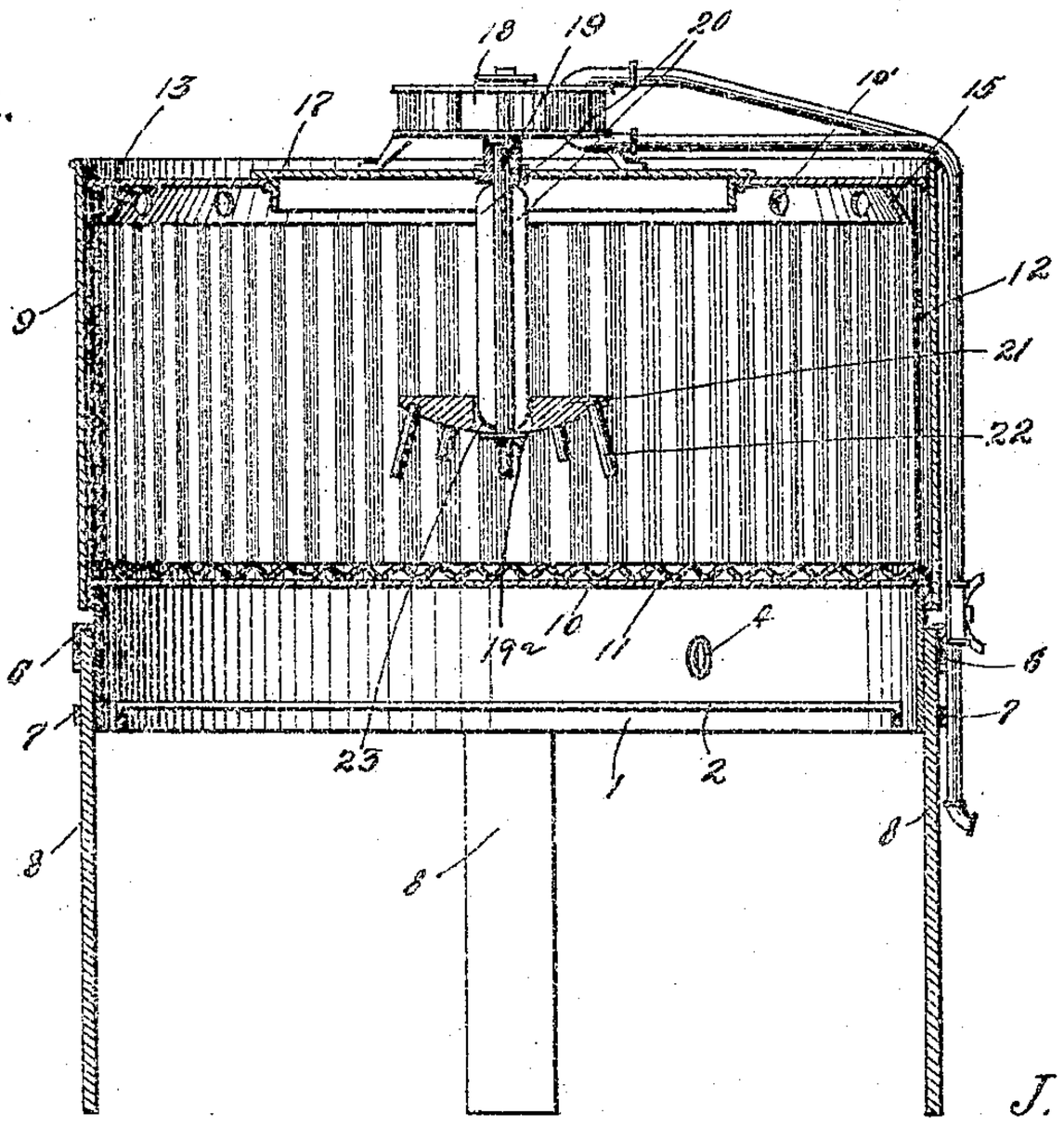


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

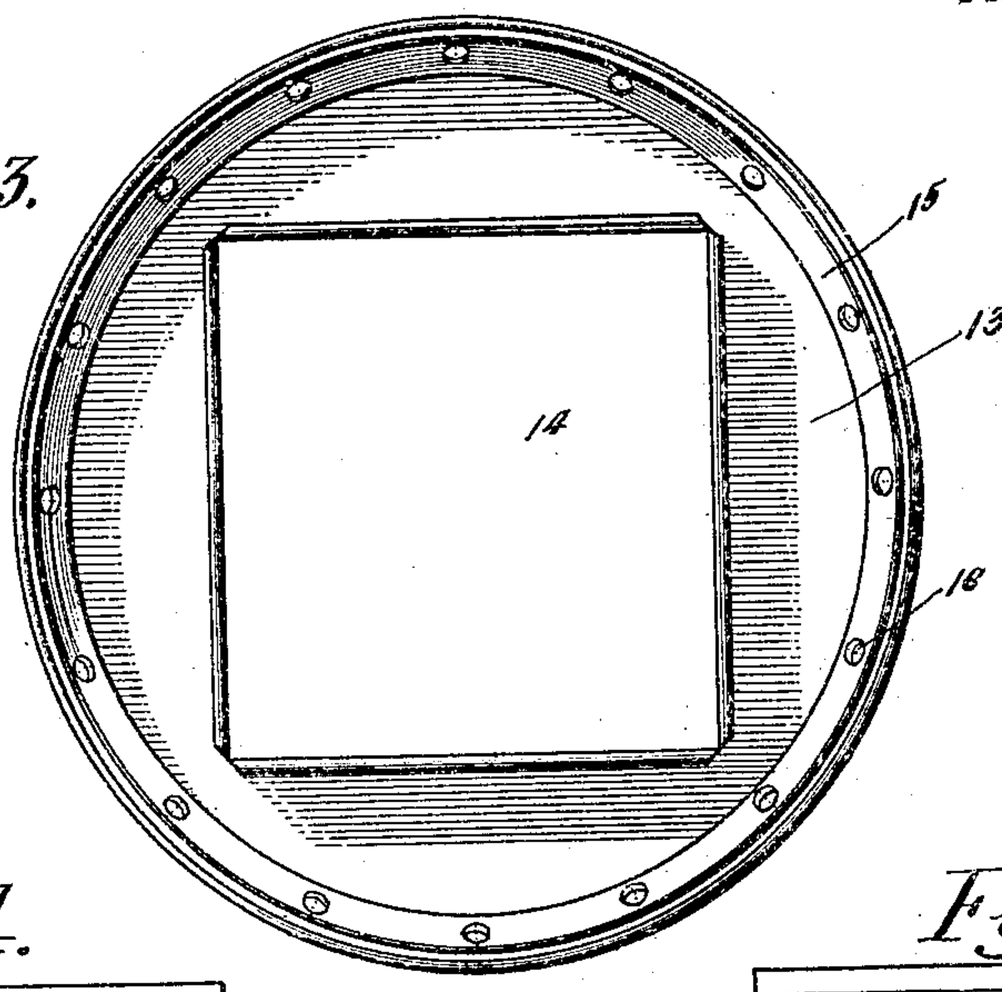


Fig. 4.

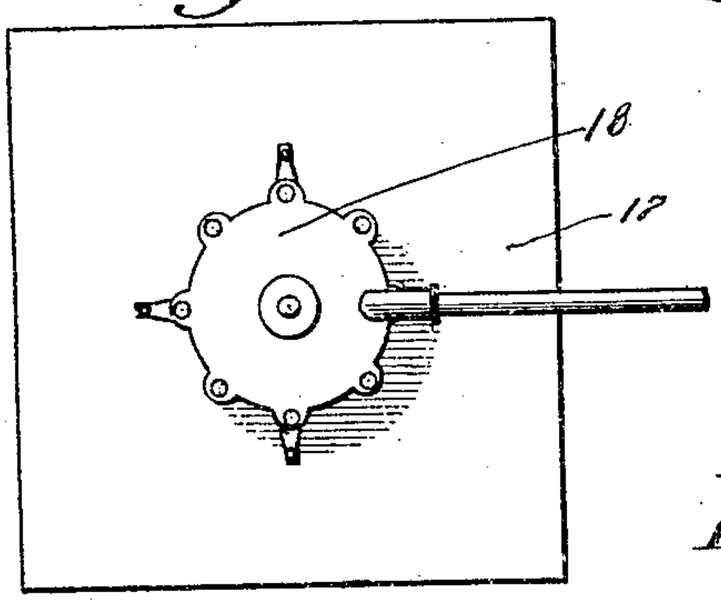


Fig. 5.

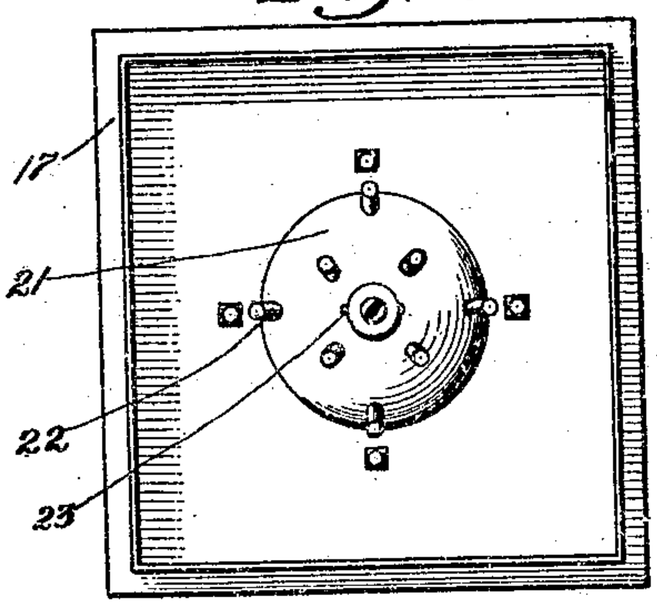
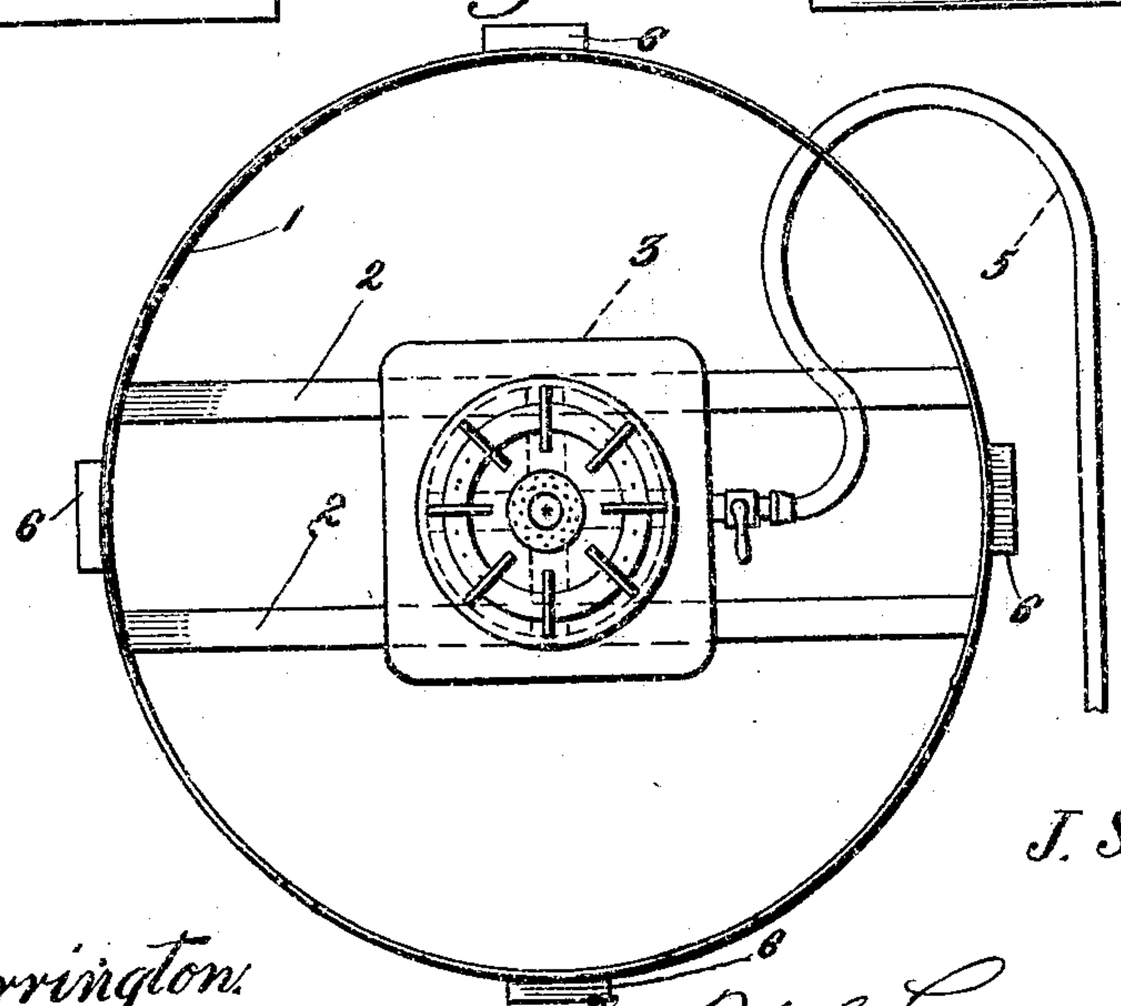


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH SCHWARTZ, OF PITTSBURG, PENNSYLVANIA.

WASHING-MACHINE.

948,255. Specification of Letters Patent. Patented Feb. 1, 1910.

Application filed November 3, 1908. Serial No. 460,862.

To all whom it may concern:

Be it known that I, JOSEPH SCHWARTZ, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to washing machines, and the primary object of my invention is to provide a motor propelled machine wherein novel means are employed for extracting grease and similar matter from clothes and collecting the same, whereby the clothes in the washing machine can be thoroughly cleansed.

Another object of my invention is to provide a washing machine having parts easily and quickly disassembled for storage purposes, the parts being readily assembled to provide a rigid and durable structure.

A still further object of the invention is to provide a washing machine with a revoluble agitator that will adjust itself according to the amount of clothes in the machine.

With the above and other objects in view which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be presently described and then claimed.

In the drawings, Figure 1 is a side elevation of my washing machine constructed in accordance with my invention, Fig. 2 is a vertical longitudinal sectional view of the same, Fig. 3 is a bottom plan of a detachable cover plate used in connection with the machine, Fig. 4 is a top plan of a motor supporting lid, Fig. 5 is a bottom plan of the same, and Fig. 6 is a plan of a circular support forming part of the machine.

Referring to the drawings in detail, 1 designates a circular metallic base provided with transversely-extending braces 2 supporting a gas burner or other suitable heating device 3, the latter being arranged centrally of the base as clearly shown in Fig. 6. The gas burner is used when it is desired to heat the water in the washing machine. The support 1 is provided with an opening 4 for a gas supply pipe 5.

The periphery of the base 1 is formed with a plurality of vertically-disposed sockets 6 and straps 7 arranged in alinement with the sockets. The sockets 6 are adapted to receive the upper ends of the standards or supports 8 which detachably engage in the sockets 6 and are adapted to support the base 1 in an elevated position. The straps 7 constitute a means to couple the supports to the base, these latter extending through the straps. The standards and supports 8 are detachably-connected to the base so that when it is desired to disassemble the washing machine for storage purposes or otherwise the standards or supports can be readily removed from the base.

Mounted upon the base 1 is a cylindrical casing 9 having a flanged bottom 10 fitting over the upper edges of the base 1. Upon the bottom 10 of the casing 9 is positioned a circular corrugated plate 11 and which has mounted thereon a corrugated cylindrical shell 12. The corrugated plate 11 and corrugated shell 12 provide a receptacle for the clothes to be washed.

Detachably mounted upon the upper end of the shell 12 is a cover plate 13 having a rectangular opening 14 and is provided adjacent to its edges with an annular flange 15 disposed at an angle with respect to the cover plate 13 and the said flange 15 has its lower edge engage the inner face of the shell 12. The flange 15 is provided with a series of circumferentially-extending openings 16.

Detachably mounted in the opening 14 of the cover plate 13 is a lid 17 which supports a water motor 18 of the ordinary and well known type operated by a circulation or passage of water therethrough. The driven shaft of the motor is indicated by the reference character 19 and extending downwardly through the lid 17 and is formed with oppositely-disposed vertical guides 20. The lower end of the shaft 19 carries a stop 19^a upon which is seated an agitator head 21, the latter is formed with agitators 22 and with an opening 23 through which extends the shaft 19 and the guides 20 whereby the head 21 can move vertically upon the shaft 19 and adjust itself to the amount of clothes within the machine. The guides 20 constitute a means for not only guiding the head in its vertical movement but furthermore cause the head to rotate the shaft 19, for this latter purpose the head 20 is provided with grooves for the reception of the guides 20, consequently, the head will at all times rotate with the shaft.

The opposite sides of the cylindrical casing 9 are provided with handles 24 to permit

of said casing being easily handled and in order that the water can be drained from the machine, the casing is also provided with a drain pipe 25 having a suitable valve or gate 26.

Assuming that the water has been placed in the machine, through the opening 14, and the clothes to be washed placed upon the plate 11 and within shell 12, the lid 17 is mounted upon the cover plate and the motor 18 thrown into operation. As the head 21 and the agitators agitate the clothes the grease, filth, and other matter removed from the clothes will rise to the top of the water and eventually be forced through the opening 16 where the foreign matter will be held in suspension by the flange 15, while the clothes are washed. After the washing operation the cover plate can be removed and cleaned.

Having now described my invention, what I claim as new, is;—

1. A washing machine comprising a casing, supporting means therefor, a corrugated plate mounted upon the bottom of said casing, a corrugated shell arranged in the casing and mounted upon said plate, a cover plate for the shell, said cover plate having an opening at the center thereof, said cover plate having depending from its inner face an annular flange formed with circumferentially-extending openings, said flange engaging said shell, a lid mounted on the cover plate and over the opening therein, an agitating means suspended from said lid, and means supported by the lid for operating said agitating means.

2. A washing machine comprising a casing, a corrugated shell mounted therein, a corrugated plate mounted upon the bottom of the casing, and supporting said shell, a cover plate for said shell, said cover plate provided with a depending annular flange, formed with circumferentially-extending openings, and an agitating means depending in the shell and supported by said cover plate.

In testimony whereof I affix my signature in the presence of two witnesses.

JOSEPH SCHWARTZ.

Witnesses:
MAX H. SROLOVITZ,
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